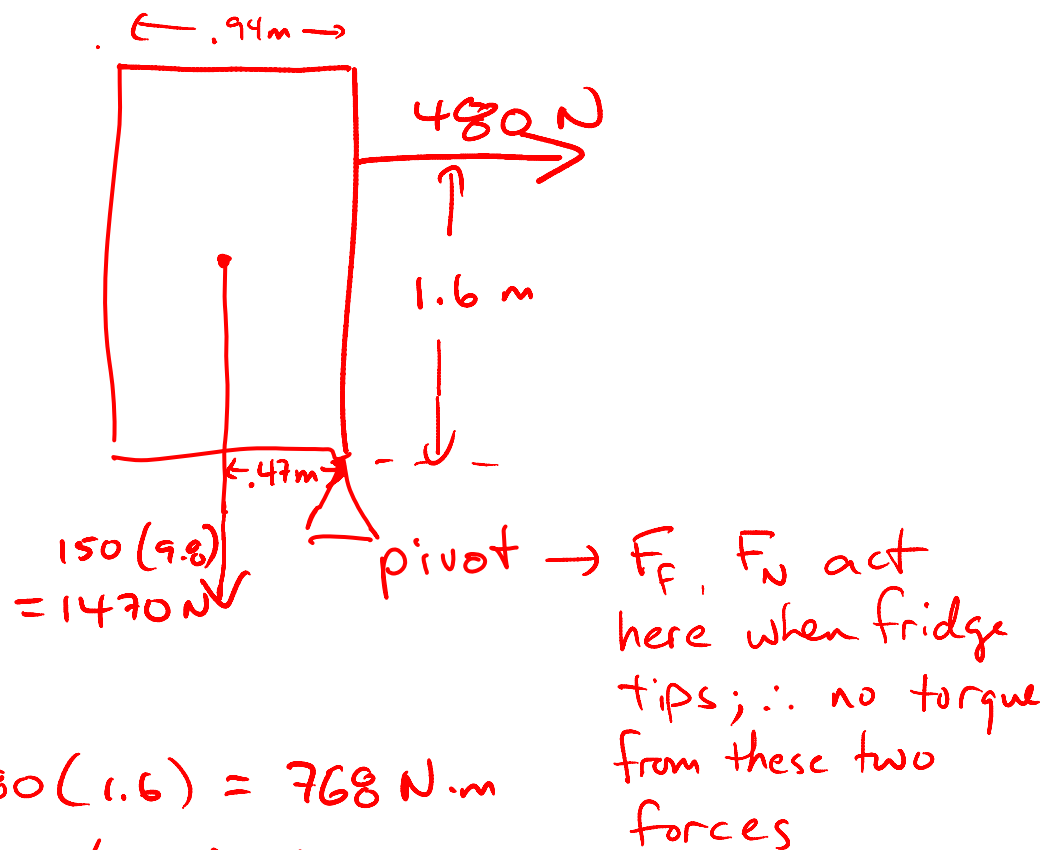
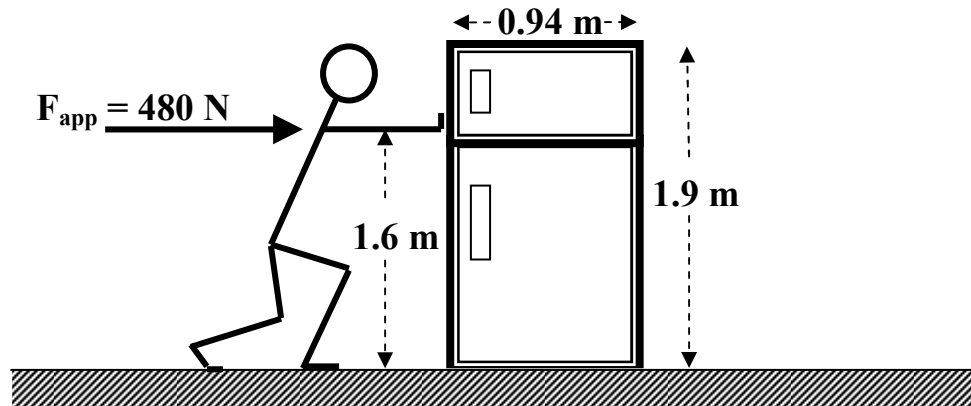


Example #10. A physics student applies a horizontal force of 480 N in an attempt to move a 150 kg refrigerator, but unfortunately causes the fridge to tip over. Examining the diagram below, what is the net torque that causes the refrigerator to begin to topple over?



$$\tau_{cw} = 480(1.6) = 768 \text{ N}\cdot\text{m}$$

$$\tau_{ccw} = 1470(.47) = 691 \text{ N}\cdot\text{m}$$

$$\tau_{net} = 77 \text{ N}\cdot\text{m} \text{ cw}$$